Brain Research, 454 (1988) 408–410
Elsevier

Author Index

Aebischer, P., Guénard, V., Winn, S.R., Valentini, R.F. and Galletti, P.M., Blind-ended semipermeable guidance channels support peripheral nerve regeneration in the absence of a distal nerve stump, 179
Allen, S.J., Dawbarn, D. and Wilcock, G.K., Morphometric immunochemical analysis of neurons in the nucleus basalis of Meynert in Alzheimer's disease, 275
Amir, A., Pittel, Z., Shahar, A., Fisher, A. and Heldman, E., Cholinotoxicity of the ethylcholine aziridinium ion in primary cultures from rat central nervous system, 298
Angelico, P., see Vezzani, A., 289
Anton, F., see Kenshalo, Jr., D.R., 378
Arnerić, S.P., Honig, M.A., Milner, T.A., Greco, S., Iadecola, C. and Reis, D.J., Neuronal and endothelial sites of acetylcholine synthesis and release associated with microvessels in rat cerebral cortex: ultrastructural and neurochemical studies, 11
Aronson, C.E., see Kovachich, G.B., 78

Baird, J.L., see Carlson, J.N., 373
Beal, M.F., Swartz, K.J., Finn, S.F., Bird, E.D. and Martin, J.B., Amino acid and neuropeptide neurotransmitters in Huntington's disease cerebellum, 393
Beers, D.R., see Kesner, R.P., 219
Bennett, M.V.L., see Cappell, M.S., 244
Berger, A.J., see Dick, T.E., 31
Bird, E.D., see Beal, M.F., 393
Björklund, A., see Trottier, S., 308
Blanks, R.H.I., see Fredericks, C.A., 116
Brainard, G.C., Lewy, A.J., Menaker, M., Frederickson, R.H., Miller, L.S., Weleber, R.G., Cassone, V. and Hudson, D., Dose–response relationship between light irradiance and the suppression of plasma melatonin in human volunteers, 212
Brunswick, D.J., see Kovachich, G.B., 78

Calin, L., see Kesslak, J.P., 347
Cappell, M.S., Spray, D.C. and Bennett, M.V.L., Stationary and non-stationary occurrences of miniature end plate potentials are well described as stationary and non-stationary Poisson processes in the mollusc *Navanax inermis*, 244
Carlson, J.N., Glick, S.D., Hinds, P.A. and Baird, J.L., Food deprivation alters dopamine utilization in the rat prefrontal cortex and asymmetrically alters amphetamine-induced rotational behavior, 373
Carpenter, B.K., see Turski, W.A., 164
Cassone, V., see Brainard, G.C., 212
Chang, C.C., Lin, S.-O., Hong, S.J. and Chiou, L.C., Neuromuscular block by verapamil and diltiazem and inhibition of acetylcholine release, 332
Chauvel, P., see Trottier, S., 308
Chiou, L.C., see Chang, C.C., 332
Chudler, E.H., see Kenshalo, Jr., D.R., 378
Co, C., see Miyauchi, T., 40
Coote, J.H., see Lovick, T.A., 123
Cotman, C.W., see Kesslak, J.P., 347
Coull, B.M., see Woodward, W.R., 106
Crutcher, K., see Kesner, R.P., 219

Dalton, T.K., see Joseph, J.A., 140
Dalton, T.K., see Joseph, J.A., 149
Davis, K.D. and Dostrovsky, J.O., Properties of feline thalamic neurons activated by stimulation of the middle meningeal artery and sagittal sinus, 89
Dawbarn, D., see Allen, S.J., 275
Day, T.A. and Sibbald, J.R., Direct catecholaminergic projection from nucleus tractus solitarii to supraoptic nucleus, 387
De Beer, F.C., Thomeer, R.T.W.M., Lakke, E., De Vries, J. and Voogd, J., Spinal cord transsections in fetal rats. Open intrauterine surgery with low mortality, 397
De Vries, J., see De Beer, F.C., 397
Dick, T.E., Viana, F. and Berger, A. J., Electrophysiological determination of the axonal projections of single dorsal respiratory group neurons to the cervical spinal cord of cat, 31
Dostrovsky, J.O., see Davis, K.D., 89
Dourish, C.T., see Hill, D.R., 101
Dubner, R., see Kenshalo Jr., D.R., 378
Dworkin, S.I., see Miyauchi, T., 40
Dwyer, B.E., see Fujikawa, D.G., 51

Ebihara, S., Goto, M. and Oshima, I., The phase-shifting effects of pentobarbital on the circadian rhythm of locomotor activity in the mouse: strain differences, 404

Falini, A., see Silani, V., 383
Finn, S.F., see Beal, M.F., 393
Fisher, A., see Amir, A., 298
Frazer, A., see Kovachich, G.B., 78
Fredericks, C.A., Giolli, R.A., Blanks, R.H.I. and Sadun, A.A., The human accessory optic system, 116
Frederickson, R.H., see Brainard, G.C., 212
Fujii, K., see Sadoshima, S., 238
Fujikawa, D.G., Vannucci, R.C., Dwyer, B.E. and Wasterlain, C.G., Generalized seizures deplete brain energy reserves in normoxemic newborn monkeys, 51
Fujishima, M., see Sadoshima, S., 238

Galletti, P.M., see Aebischer, P., 179
Gibson, C.J., Diurnal alterations in retinal tyrosine level and dopamine turnover in diabetic rats, 60
Giolli, R.A., see Fredericks, C.A., 116
Glick, S.D., see Carlson, J.N., 373
Goto, I., see Tanaka, K., 340
Goto, M., see Ebihara, S., 404
Greco, S., see Arnerić, S.P., 11
Guénard, V., see Aebischer, P., 179
Guido, W., see Schroeder, C.E., 227
Gurtu, S., see Pant, K.K., 400

Haley, D.A., Thompson, R.F. and Madden IV, J., Pharmacological analysis of the magnocellular red nucleus during classical conditioning of the rabbit nictitating membrane response, 131
Hayama, T., see Ogawa, H., 321

Brain Research, 454 (1988) 408–410
Elsevier

Author Index

Aebischer, P., Guénard, V., Winn, S.R., Valentini, R.F. and Galletti, P.M., Blind-ended semipermeable guidance channels support peripheral nerve regeneration in the absence of a distal nerve stump, 179
Allen, S.J., Dawbarn, D. and Wilcock, G.K., Morphometric immunochemical analysis of neurons in the nucleus basalis of Meynert in Alzheimer's disease, 275
Amir, A., Pittel, Z., Shahar, A., Fisher, A. and Heldman, E., Cholinotoxicity of the ethylcholine aziridinium ion in primary cultures from rat central nervous system, 298
Angelico, P., see Vezzani, A., 289
Anton, F., see Kenshalo, Jr., D.R., 378
Arnerić, S.P., Honig, M.A., Milner, T.A., Greco, S., Iadecola, C. and Reis, D.J., Neuronal and endothelial sites of acetylcholine synthesis and release associated with microvessels in rat cerebral cortex: ultrastructural and neurochemical studies, 11
Aronson, C.E., see Kovachich, G.B., 78

Baird, J.L., see Carlson, J.N., 373
Beal, M.F., Swartz, K.J., Finn, S.F., Bird, E.D. and Martin, J.B., Amino acid and neuropeptide neurotransmitters in Huntington's disease cerebellum, 393
Beers, D.R., see Kesner, R.P., 219
Bennett, M.V.L., see Cappell, M.S., 244
Berger, A.J., see Dick, T.E., 31
Bird, E.D., see Beal, M.F., 393
Björklund, A., see Trottier, S., 308
Blanks, R.H.I., see Fredericks, C.A., 116
Brainard, G.C., Lewy, A.J., Menaker, M., Frederickson, R.H., Miller, L.S., Weleber, R.G., Cassone, V. and Hudson, D., Dose–response relationship between light irradiance and the suppression of plasma melatonin in human volunteers, 212
Brunswick, D.J., see Kovachich, G.B., 78

Calin, L., see Kesslak, J.P., 347
Cappell, M.S., Spray, D.C. and Bennett, M.V.L., Stationary and non-stationary occurrences of miniature end plate potentials are well described as stationary and non-stationary Poisson processes in the mollusc *Navanax inermis*, 244
Carlson, J.N., Glick, S.D., Hinds, P.A. and Baird, J.L., Food deprivation alters dopamine utilization in the rat prefrontal cortex and asymmetrically alters amphetamine-induced rotational behavior, 373
Carpenter, B.K., see Turski, W.A., 164
Cassone, V., see Brainard, G.C., 212
Chang, C.C., Lin, S.-O., Hong, S.J. and Chiou, L.C., Neuromuscular block by verapamil and diltiazem and inhibition of acetylcholine release, 332
Chauvel, P., see Trottier, S., 308
Chiou, L.C., see Chang, C.C., 332
Chudler, E.H., see Kenshalo, Jr., D.R., 378
Co, C., see Miyauchi, T., 40
Coote, J.H., see Lovick, T.A., 123
Cotman, C.W., see Kesslak, J.P., 347
Coull, B.M., see Woodward, W.R., 106
Crutcher, K., see Kesner, R.P., 219

Dalton, T.K., see Joseph, J.A., 140
Dalton, T.K., see Joseph, J.A., 149
Davis, K.D. and Dostrovsky, J.O., Properties of feline thalamic neurons activated by stimulation of the middle meningeal artery and sagittal sinus, 89
Dawbarn, D., see Allen, S.J., 275
Day, T.A. and Sibbald, J.R., Direct catecholaminergic projection from nucleus tractus solitarii to supraoptic nucleus, 387
De Beer, F.C., Thomeer, R.T.W.M., Lakke, E., De Vries, J. and Voogd, J., Spinal cord transsections in fetal rats. Open intrauterine surgery with low mortality, 397
De Vries, J., see De Beer, F.C., 397
Dick, T.E., Viana, F. and Berger, A. J., Electrophysiological determination of the axonal projections of single dorsal respiratory group neurons to the cervical spinal cord of cat, 31
Dostrovsky, J.O., see Davis, K.D., 89
Dourish, C.T., see Hill, D.R., 101
Dubner, R., see Kenshalo Jr., D.R., 378
Dworkin, S.I., see Miyauchi, T., 40
Dwyer, B.E., see Fujikawa, D.G., 51

Ebihara, S., Goto, M. and Oshima, I., The phase-shifting effects of pentobarbital on the circadian rhythm of locomotor activity in the mouse: strain differences, 404

Falini, A., see Silani, V., 383
Finn, S.F., see Beal, M.F., 393
Fisher, A., see Amir, A., 298
Frazer, A., see Kovachich, G.B., 78
Fredericks, C.A., Giolli, R.A., Blanks, R.H.I. and Sadun, A.A., The human accessory optic system, 116
Frederickson, R.H., see Brainard, G.C., 212
Fujii, K., see Sadoshima, S., 238
Fujikawa, D.G., Vannucci, R.C., Dwyer, B.E. and Wasterlain, C.G., Generalized seizures deplete brain energy reserves in normoxemic newborn monkeys, 51
Fujishima, M., see Sadoshima, S., 238

Galletti, P.M., see Aebischer, P., 179
Gibson, C.J., Diurnal alterations in retinal tyrosine level and dopamine turnover in diabetic rats, 60
Giolli, R.A., see Fredericks, C.A., 116
Glick, S.D., see Carlson, J.N., 373
Goto, I., see Tanaka, K., 340
Goto, M., see Ebihara, S., 404
Greco, S., see Arnerić, S.P., 11
Guénard, V., see Aebischer, P., 179
Guido, W., see Schroeder, C.E., 227
Gurtu, S., see Pant, K.K., 400

Haley, D.A., Thompson, R.F. and Madden IV, J., Pharmacological analysis of the magnocellular red nucleus during classical conditioning of the rabbit nictitating membrane response, 131
Hayama, T., see Ogawa, H., 321

Heldman, E., see Amir, A., 298
Hill, D.R., Shaw, T.M., Dourish, C.T. and Woodruff, G.N., CCK-A receptors in the rat interpeduncular nucleus: evidence for a presynaptic location, 101
Hinds, P.A., see Carlson, J.N., 373
Hong, S.J., see Chang, C.C., 332
Honig, M.A., see Arnerić, S.P., 11
Hori, T., see Nakashima, T., 361
Hudson, D., see Brainard, G.C., 212
Hunt, W.A., see Joseph, J.A., 140
Hunt, W.A., see Joseph, J.A., 149

Iadecola, C., see Arnerić, S.P., 11
Ishitsuka, T., see Sadoshima, S., 238

Joseph, J.A., Dalton, T.K. and Hunt, W.A., Age-related decrements in the muscarinic enhancement of K^+-evoked release of endogenous striatal dopamine: an indicator of altered cholinergic–dopaminergic reciprocal inhibitory control in senescence, 140
Joseph, J.A., Dalton, T.K., Roth, G.S. and Hunt, W.A., Alterations in muscarinic control of striatal dopamine autoreceptors in senescence: a deficit at the ligand–muscarinic receptor interface?, 149

Kairiss, E.W., see Racine, R.J., 251
Kairiss, E.W., see Racine, R.J., 264
Kenshalo Jr., D.R., Chudler, E.H., Anton, F. and Dubner, R., SI nociceptive neurons participate in the encoding process by which monkeys perceive the intensity of noxious thermal stimulation, 378
Kesner, R.P., Crutcher, K. and Beers, D.R., Serial position curves for item (spatial location) information: role of the dorsal hippocampal formation and medial septum, 219
Kesslak, J.P., Walencewicz, A., Calin, L., Nieto-Sampedro, M. and Cotman, C.W., Hippocampal but not astrocyte transplants enhance recovery on a forced choice alternation task after kainate lesions, 347
Kicliter, E., see Lugo-Garcia, N., 67
Kobayashi, T., see Tanaka, K., 340
Kovachich, G.B., Aronson, C.E., Brunswick, D.J. and Frazer, A., Quantitative autoradiography of serotonin uptake sites in rat brain using [^{3}H]cyanoimipramine, 78
Kruk, Z.L., see Stamford, J.A., 282
Kuriyama, K., see Nakashima, T., 361

Lacombe, P., see Lasbennes, F., 205
Lakke, E., see De Beer, F.C., 397
LaManna, J.C., see Shockley, R.P., 170
Lasbennes, F., Lacombe, P. and Seylaz, J., Effect of monoamine oxidase inhibition on the regional cerebral blood flow response to circulating noradrenaline, 205
Leander, J.D., Rathbun, R.C. and Zimmerman, D.M., Anticonvulsant effects of phencyclidine-like drugs: relation to *N*-methyl-D-aspartic acid antagonism, 368
Lewy, A.J., see Brainard, G.C., 212
Lin, S.-O., see Chang, C.C., 332
Lindvall, O., see Trottier, S., 308
Lopes da Silva, F.H., see Melchers, B.P.C., 1
Lorez, H.P., Von Frankenberg, M., Weskamp, G. and Otten, U., Effect of bilateral decortication on nerve growth factor content in basal nucleus and neostriatum of adult rat brain, 355
Lovick, T.A. and Coote, J.H., Electrophysiological properties of paraventriculo-spinal neurones in the rat, 123
Lugo-Garcia, N. and Kicliter, E., Morphology of ganglion cells which project to the dorsal lateral geniculate and superior colliculus in the ground squirrel, 67

Madden IV, J., see Haley, D.A., 131
Martin, J.B., see Beal, M.F., 393
Matsuda, T., see Nakashima, T., 361
Mehta, A.K., and Ticku, M.K., Developmental aspects of benzodiazepine receptors and GABA-gated chloride channels in primary cultures of spinal cord neurons, 156
Melchers, B.P.C., Pennartz, C.M.A., Wadman, W.J. and Lopes da Silva, F.H., Quantitative correlation between tetanus-induced decreases in extracellular calcium and LTP, 1
Menaker, M., see Brainard, G.C., 212
Millar, J., see Stamford, J.A., 282
Miller, L.S., see Brainard, G.C., 212
Milner, T.A., see Arnerić, S.P., 11
Miyauchi, T., Dworkin, S.I., Co, C. and Smith, J.E., Specific effects of punishment on biogenic monoamine turnover in discrete rat brain regions, 40
Mosher, J.M., see Racine, R.J., 264
Mosher, M., see Racine, R.J., 251
Murphy, V.A. and Rapoport, S.I., Increased transfer of ^{45}Ca into brain and cerebrospinal fluid from plasma during chronic hypocalcemia in rats, 315

Nagara, H., see Tanaka, K., 340
Nakamura, M., see Turski, W.A., 164
Nakashima, T., Hori, T., Kuriyama, K. and Matsuda, T., Effects of interferon-α on the activity of preoptic thermosensitive neurons in tissue slices, 361
Nakatomi, Y., see Sadoshima, S., 238
Nieto-Sampedro, M., see Kesslak, J.P., 347

Ogata, J., see Sadoshima, S., 238
Ogawa, H., Hayama, T. and Yamashita, Y., Thermal sensitivity of neurons in a rostral part of the rat solitary tract nucleus, 321
Ooboshi, H., see Sadoshima, S., 238
Oshima, I., see Ebihara, S., 404
Otten, U., see Lorez, H.P., 355

Pant, K.K. and Gurtu, S., Angiotensin receptors at the spinal cardiovascular loci, 400
Paxinos, G., see Racine, R.J., 264
Pennartz, C.M.A., see Melchers, B.P.C., 1
Pezzoli, G., see Silani, V., 383
Phelps, C.P. and Saporta, S., The release of pituitary LH and sprouting of LH-releasing hormone (LHRH)-containing neurons after anterior hypothalamic deafferentation, 188
Pittel, Z., see Amir, A., 298
Pizzuti, A., see Silani, V., 383

Racine, R.J., Mosher, M. and Kairiss, E.W., The role of the pyriform cortex in the generation of interictal spikes in the kindled preparation, 251
Racine, R.J., Paxinos, G., Mosher, J.M. and Kairiss, E.W., The effects of various lesions and knife-cuts on septal and amygdala kindling in the rat, 264
Rapoport, S.I., see Murphy, V.A., 315
Rathbun, R.C., see Leander, J.D., 368
Reis, D.J., see Arnerić, S.P., 11
Roth, G.S., see Joseph, J.A., 149

Sahoshima, S., Nakatomi, Y., Fujii, K., Ooboshi, H., Ishitsuka, T., Ogata, J. and Fujishima, M., Mortality and histological findings of the brain during and after cerebral ischemia in male and female spontaneously hypertensive rats, 238
Sadun, A.A., see Fredericks, C.A., 116
Salinger, W.L., see Schroeder, C.E., 227
Samanin, R., see Vezzani, A., 289
Saporta, S., see Phelps, C.P., 188
Scarlato, G., see Silani, V., 383
Schroeder, C.E., Saliner, W.L. and Guido, W., The influence of anesthesia upon binocular processes controlling the recordability of X- and Y-cells in the lateral geniculate nucleus of the cat, 227
Schwarcz, R., see Turski, W.A., 164
Seylaz, J., see Lasbennes, F., 205
Shahar, A., see Amir, A., 298
Shaw, T.M., see Hill, D.R., 101
Shockley, R.P. and LaManna, J.C., Determination of rat cerebral cortical blood volume changes by capillary mean transit time analysis during hypoxia, hypercapnia and hyperventilation, 170
Sibbald, J.R., see Day, T.A., 387
Silani, V., Pizzuti, A., Strada, O., Falini, A., Pezzoli, G. and Scarlato, G., Cryopreservation of human fetal adrenal medullary cells, 383
Smith, J.E., see Miyauchi, T., 40
Spray, D.C., see Cappell, M.S., 244
Stamford, J.A., Kruk, Z.L. and Millar, J., Stimulated limbic and striatal dopamine release measured by fast cyclic voltammetry: anatomical, electrochemical and pharmacological characterisation, 282
Stasi, M.A., see Vezzani, A., 289
Strada, O., see Silani, V., 383
Swartz, K.J., see Beal, M.F., 393

Tanaka, K., Nagara, H., Kobayashi, T. and Goto, I., The twitcher mouse: accumulation of galactosylsphingosine and pathology of the sciatic nerve, 340
Thomeer, R.T.W.M., see De Beer, F.C., 397
Thompson, R.F., see Haley, D.A., 131
Ticku, M.K., see Mehta, A.K., 156
Todd, W.P., see Turski, W.A., 164
Trottier, S., Lindvall, O., Chauvel, P. and Björklund, A., Facilitation of focal cobalt-induced epilepsy after lesions of the noradrenergic locus coeruleus system, 308
Turski, W.A., Nakamura, M., Todd, W.P., Carpenter, B.K., Whetsell Jr., W.O. and Schwarcz, R., Identification and quantification of kynurenic acid in human brain tissue, 164

Valentini, R.F., see Aebisher, P., 179
Vannucci, R.C., see Fujikawa, D.G., 51
Vezzani, A., Wu, H.Q., Angelico, P., Stasi, M.A. and Samanin, R., Quinolinic acid-induced seizures, but not nerve cell death, are associated with extracellular Ca^{2+} decrease assessed in the hippocampus by brain dialysis, 289
Viana, F., see Dick, T.E., 31
Von Frankenberg, M., see Lorez, H.P., 355
Voogd, J., see De Beer, F.C., 397

Wadman, W.J., see Melchers, B.P.C., 1
Walencewicz, A., see Kesslak, J.P., 347
Wasterlain, C.G., see Fujikawa, D.G., 51
Weleber, R.G., see Brainard, G.C., 212
Weskamp, G., see Lorez, H.P., 355
Whetsell Jr., W.O., see Turski, W.A., 164
Wilcock, G.K., see Allen, S.J., 275
Winn, S.R., see Aebischer, P., 179
Woodruff, G.N., see Hill, D.R., 101
Woodward, W.R. and Coull, B.M., Effects of kainic acid lesions in lateral geniculate nucleus: activity dependence of retrograde axonal transport of fluorescent dyes, 106
Wu, H.Q., see Vezzani, A., 289

Yamashita, Y., see Ogawa, H., 321

Zimmerman, D.M., see Leander, J.D., 368

BRAIN RESEARCH

VOL. 454 NO. 1/2 CONTENTS 28 JUNE 1988

Research Reports

Quantitative correlation between tetanus-induced decreases in extracellular calcium and LTP (BRE 13697)
B.P.C. Melchers, C.M.A. Pennartz, W.J. Wadman and F.H. Lopes da Silva (The Netherlands) 1

Neuronal and endothelial sites of acetylcholine synthesis and release associated with microvessels in rat cerebral cortex: ultrastructural and neurochemical studies (BRE 13698)
S.P. Arnerić, M.A. Honig, T.A. Milner, S. Greco, C. Iadecola and D.J. Reis (U.S.A.) 11

Electrophysiological determination of the axonal projections of single dorsal respiratory group neurons to the cervical spinal cord of cat (BRE 13699)
T.E. Dick, F. Viana and A.J. Berger (U.S.A.) 31

Specific effects of punishment on biogenic monoamine turnover in discrete rat brain regions (BRE 13700)
T. Miyauchi, S.I. Dworkin, C. Co and J.E. Smith (U.S.A.) 40

Generalized seizures deplete brain energy reserves in normoxemic newborn monkeys (BRE 13701)
D.G. Fujikawa, R.C. Vannucci, B.E. Dwyer and C.G. Wasterlain (U.S.A.) 51

Diurnal alterations in retinal tyrosine level and dopamine turnover in diabetic rats (BRE 13702)
C.J. Gibson (Canada) 60

Morphology of ganglion cells which project to the dorsal lateral geniculate and superior colliculus in the ground squirrel (BRE 13703)
N. Lugo-Garcia and E. Kicliter (Puerto Rico) 67

Quantitative autoradiography of serotonin uptake sites in rat brain using [^{3}H]cyanoimipramine (BRE 13704)
G.B. Kovachich, C.E. Aronson, D.J. Brunswick and A. Frazer (U.S.A.) 78

Properties of feline thalamic neurons activated by stimulation of the middle meningeal artery and sagittal sinus (BRE 13706)
K.D. Davis and J.O. Dostrovsky (Canada) 89

CCK-A receptors in the rat interpeduncular nucleus: evidence for a presynaptic location (BRE 13707)
D.R. Hill, T.M. Shaw, C.T. Dourish and G.N. Woodruff (U.K.) 101

Effects of kainic acid lesions in lateral geniculate nucleus: activity dependence of retrograde axonal transport of fluorescent dyes (BRE 13708)
W.R. Woodward and B.M. Coull (U.S.A.) 106

The human accessory optic system (BRE 13709)
C.A. Fredericks, R.A. Giolli, R.H.I. Blanks and A.A. Sadun (U.S.A.) 116

Electrophysiological proterties of paraventriculo-spinal neurones in the rat (BRE 13710)
T.A. Lovick and J.H. Coote (U.K.) 123

Pharmacological analysis of the magnocellular red nucleus during classical conditioning of the rabbit nictitating membrane response (BRE 13711)
D.A. Haley, R.F. Thompson and J. Madden IV (U.S.A.) 131

Age-related decrements in the muscarinic enhancement of K^+-evoked release of endogenous striatal dopamine: an indicator of altered cholinergic–dopaminergic reciprocal inhibitory control in senescence (BRE 13712)
J.A. Joseph, T.K. Dalton and W.A. Hunt (U.S.A.) 140

Alterations in muscarinic control of striatal dopamine autoreceptors in senescence: a deficit at the ligand–muscarinic receptor interface? (BRE 13713)
J.A. Joseph, T.K. Dalton, G.S. Roth and W.A. Hunt (U.S.A.) 149

Developmental aspects of benzodiazepine receptors and GABA-gated chloride channels in primary cultures of spinal cord neurons (BRE 13715)
A.K. Mehta and M.K. Ticku (U.S.A.) 156

Identification and quantification of kynurenic acid in human brain tissue (BRE 13716)
W.A. Turski, M. Nakamura, W.P. Todd, B.K. Carpenter, W.O. Whetsell Jr. and R. Schwarcz (U.S.A.) 164

Determination of rat cerebral cortical blood volume changes by capillary mean transit time analysis during hypoxia, hypercapnia and hyperventilation (BRE 13717)
R.P. Shockley and J.C. LaManna (U.S.A.) 170

Blind-ended semipermeable guidance channels support peripheral nerve regeneration in the absence of a distal nerve stump (BRE 13714)
P. Aebischer, V. Guénard, S.R. Winn, R.F. Valentini and P.M. Galletti (U.S.A.) 179

(contents continued on pp. 411/412)

Cited in Biological Abstracts (BIOSIS) — Chem. Abstracts — Index Medicus — Current Contents (Life Sci.) — Excerpta Medica (EMBASE) — Psychological Abstracts (PsycINFO) — PASCAL M

(contents continued from backcover)

The release of pituitary LH and sprouting of LH-releasing hormone (LHRH)-containing neurons after anterior hypothalamic deafferentation (BRE 13718)
C.P. Phelps and S. Saporta (U.S.A.) 188

Effect of monoamine oxidase inhibition on the regional cerebral blood flow response to circulating noradrenaline (BRE 13719)
F. Lasbennes, P. Lacombe and J. Seylaz (France) 205

Dose–response relationship between light irradiance and the suppression of plasma melatonin in human volunteers (BRE 13720)
G.C. Brainard, A.J. Lewy, M. Menaker, R.H. Fredrickson, L.S. Miller, R.G. Weleber, V. Cassone and D. Hudson (U.S.A.) 212

Serial position curves for item (spatial location) information: role of the dorsal hippocampal formation and medial septum (BRE 13722)
R.P. Kesner, K. Crutcher and D.R. Beers (U.S.A.) 219

The influence of anesthesia upon binocular processes controlling the recordability of X- and Y-cells in the lateral geniculate nucleus of the cat (BRE 13723)
C.E. Schroeder, W.L. Salinger and W. Guido (U.S.A.) 227

Mortality and histological findings of the brain during and after cerebral ischemia in male and female spontaneously hypertensive rats (BRE 13725)
S. Sadoshima, U. Nakatomi, K. Fujii, H. Ooboshi, T. Ishitsuka, J. Ogata and M. Fujishima (Japan) 238

Stationary and non-stationary occurrences of miniature end plate potentials are well described as stationary and non-stationary Poisson processes in the mollusc *Navanax inermis* (BRE 13727)
M.S. Cappell, D.C. Spray and M.V.L. Bennett (U.S.A.) 244

The role of the pyriform cortex in the generation of interictal spikes in the kindled preparation (BRE 13728)
R.J. Racine, M. Mosher and E.W. Kairiss (Canada) 251

The effects of various lesions and knife-cuts on septal and amygdala kindling in the rat (BRE 13729)
R.J. Racine, G. Paxinos, J.M. Mosher and E.W. Kairiss (Canada, Australia) 264

Morphometric immunochemical analysis of neurons in the nucleus basalis of Meynert in Alzheimer's disease (BRE 13730)
S.J. Allen, D. Dawbarn and G.K. Wilcock (U.K.) 275

Stimulated limbic and striatal dopamine release measured by fast cyclic voltammetry: anatomical, electrochemical and pharmacological characterisation (BRE 13731)
J.A. Stamford, Z.L. Kruk and J. Millar (U.K.) 282

Quinolinic acid-induced seizures, but not nerve cell death, are associated with extracellular Ca^{2+} decrease assessed in the hippocampus by brain dialysis (BRE 13732)
A. Vezzani, H.Q. Wu, P. Angelico, M.A. Stasi and R. Samanin (Italy) 289

Cholinotoxicity of the ethylcholine aziridinium ion in primary cultures from rat central nervous system (BRE 13733)
A. Amir, Z. Pittel, A. Shahar, A. Fisher and E. Heldman (Israel) 298

Facilitation of focal cobalt-induced epilepsy after lesions of the noradrenergic locus coeruleus system (BRE 13734)
S. Trottier, O. Lindvall, P. Chauvel and A. Björklund (France, Sweden) 308

Increased transfer of ^{45}Ca into brain and cerebrospinal fluid from plasma during chronic hypocalcemia in rats (BRE 13735)
V.A. Murphy and S.I. Rapoport (U.S.A.) 315

Thermal sensitivity of neurons in a rostral part of the rat solitary tract nucleus (BRE 13736)
H. Ogawa, T. Hayama and Y. Yamashita (Japan) 321

Neuromuscular block by verapamil and diltiazem and inhibition of acetylcholine release (BRE 13737)
C.C. Chang, S.-O. Lin, S.J. Hong and L.C. Chiou (Taiwan) 332

The twitcher mouse: accumulation of galactosylspingosine and pathology of the sciatic nerve (BRE 13738)
K. Tanaka, H. Nagara, T. Kobayashi and I. Goto (Japan) 340

Hippocampal but not astrocyte transplants enhance recovery on a forced choice alternation task after kainate lesions (BRE 13739)
J.P. Kesslak, A. Walencewicz, L. Calin, M. Nieto-Sampedro and C.W. Cotman (U.S.A.) 347

Effect of bilateral decortication on nerve growth factor content in basal nucleus and neostriatum of adult rat brain (BRE 13741)
H.P. Lorez, M. von Frankenberg, G. Weskamp and U. Otten (Switzerland) 355

Effects of interferon-α on the activity of preoptic thermosensitive neurons in tissue slices (BRE 13742)
T. Nakashima, T. Hori, K. Kuriyama and T. Matsuda (Japan) 361

Anticonvulsant effects of phencyclidine-like drugs: relation to *N*-methyl-D-aspartic acid antagonism (BRE 13743)
J.D. Leander, R.C. Rathbun and D.M. Zimmerman (U.S.A.) 368

(continued overleaf)

Short Communications

Food deprivation alters dopamine utilization in the rat prefrontal cortex and asymmetrically alters amphetamine-induced rotational behavior (BRE 22959)
J.N. Carlson, S.D. Glick, P.A. Hinds and J.L. Baird (U.S.A.) 373

SI nociceptive neurons participate in the encoding process by which monkeys perceive the intensity of noxious thermal stimulation (BRE 22967)
D.R. Kenshalo Jr., E.H. Chudler, F. Anton and R. Dubner (U.S.A.) 378

Cryopreservation of human fetal adrenal medullary cells (BRE 22968)
V. Silani, A. Pizzuti, O. Strada, A. Falini, G. Pezzoli and G. Scarlato (Italy) 383

Direct catecholaminergic projection from nucleus tractus solitarii to supraoptic nucleus (BRE 22969)
T.A. Day and J.R. Sibbald (New Zealand) 387

Amino acid and neuropeptide neurotransmitters in Huntington's disease cerebellum (BRE 22970)
M.F. Beal, K.J. Swartz, S.F. Finn, E.D. Bird and J.B. Martin (U.S.A.) 393

Spinal cord transections in fetal rats. Open intrauterine surgery with low mortality (BRE 22975)
F.C. De Beer, R.T.W.M. Thomeer, E. Lakke, J. De Vries and J. Voogd (The Netherlands) 397

Angiotensin receptors at the spinal cardiovascular loci (BRE 22978)
K.K. Pant and S. Gurtu (India) 400

The phase-shifting effects of pentobarbital on the circadian rhythm of locomotor activity in the mouse: strain differences (BRE 22980)
S. Ebihara, M. Goto and I. Oshima (Japan) 404

Author Index 408